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## Fax Cover Sheet

*Date:* October 8, 2004

*Sent To:* Mr. Zia Hashmi

*Fax Number:* 703-872-9306

*Re:* Patent Application No. 10/036,240

*From:* Dr. Behrouz Amini

*Fax Number:* 865-531-3892

*Phone Number:* 865-363-3550

*Pages Sent (Including this page):* 8

**Comments:** The following documents are faxed with this sheet:

- 1- My response to the Examiner's Office Action, 7 pages total.

(Application No. 10 / 036,240)

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**In the United States Patent and Trademark Office**

Application/Control Number 10/036,240  
Art Unit 2881  
Filed: Jan. 3, 2002  
Examiner: Zia R. Hashmi

Applicant Behrouz Amini  
For: A High Power High Yield Target for Production of all Radioisotopes for  
Positron Emission Tomography

Dear Mr. Hashmi:

I have carefully studied your Office action of June 9, 2004. My response to your Office action is attached to this page.

I believe my response will substantiate that Claims 1-15 of my invention are patentably distinct from the prior art. As a result, I respectfully request reconsideration and allowance of Claims 1-15 of my invention.

In our telephone conversation of October 6, we discussed the possibility of canceling dependant Claim 6, since it seemed that this claim might partially overlap with Welsh et al's disclosure. The subject of dependant Claim 6 is with regard to cooling the target sample with a cooling fluid. After further studying Welsh et al's disclosure I realized that Welsh et al. do not and cannot cool their target with a cooling fluid. They use a solid target, a solid electroplated metallic piece. Their target is loaded and unloaded automatically. During the bombardment it is held in a target holder without being attached to a cooling means. These issues are further discussed in my response. As a result, for the time being I leave dependant Claim 6 as is.

Sincerely,

*Behrouz Amini*  
Behrouz Amini  
(Applicant)